

NANOMYTE® SR-100EC

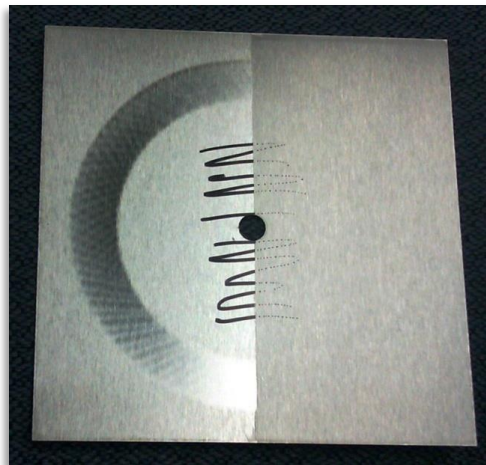
Easy-to-clean, scratch-resistant coating



NANOMYTE® SR-100EC is a transparent, micron-thick coating that provides both scratch resistance and easy-to-clean properties to surfaces. The waterborne SR-100EC coating can be applied to plastics such as polycarbonate, PMMA, PET, polyurethane, epoxy, as well as metals such as stainless steel, aluminum, titanium, brass and chrome. The surface treatment is mechanically stable, is highly repellent to water and oils, and it enhances lubricity. By applying SR-100EC on the surface of components, soil and liquids simply slide off the surface, thereby helping prevent deposits and extending the time between cleanings.

NEI's SR-100EC coating is based on a patent pending, water-based coating composition comprised of functionalized perfluoropolyethers (PFPEs). Although PFPEs are known for their non-stick and lubricating properties, it has been a major technical challenge to incorporate them into a stable formulation that can lead to a coating with sufficient adhesion to various substrates. NEI's SR-100EC formulation overcomes this stability issue. Additionally, while PFPE-based, easy-to-clean coatings currently on the market generally form very thin (< 100nm) coatings, SR-100EC coatings have a thickness of 2-5 microns, thereby creating a more mechanically stable coating that cannot easily be removed by abrasion, harsh cleaners or chemicals.

SR-100EC is easy to use and is ideally suited for optical lenses, touch screen protectors, stainless steel appliances, hand rails, and faucets. The liquid coating solution can be applied by dipping, spraying, roll or flow coating and is available in 1, 5, and 55 gallon quantities.



Half-coated polycarbonate (left) and stainless steel plates after 500 cycles of Taber abrasion testing (ASTM D-1044, 500 gram load, CS-10F wheel), with tracing lines of a Sharpie® marker across the center lines.

FEATURES

- Clear coating solution resulting in a micron-thick transparent film
- Excellent adhesion with plastic, metallic and ceramic substrates
- Long shelf life
- Applied by dipping, spraying, roll or flow coating

BENEFITS

- Creates an easy-to-clean surface
- Provides abrasion / scratch resistance
- Imparts excellent and durable stain-resisting properties
- Repels water, oils, ketones, and hydrocarbons
- Superior chemical resistance
- Creates a lubricating surface

400 Apgar Drive, Unit E | Somerset, NJ 08873 | (732) 868-3141 | sales@neicorporation.com

www.neicorporation.com